

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) An optical module, comprising:
a first substrate;
an electronic device provided on said first substrate;
an optical device electrically connected to said electronic device
a fiber assembly optically coupled to said optical device, said fiber assembly including an optical fiber and a ferrule for protecting said optical fiber;; and
a housing including a base for mounting said optical device and said fiber assembly thereon and a cover for enclosing said electronic device and said optical device within a cavity formed by said housing cooperated with said base and said first substrate, said base having an opening through which said first substrate is set to expose said electronics device within said cavity, said cover including a first groove having a pair of surfaces for securing said fiber assembly, said base including a second groove having a pair of side surfaces for securing said fiber assembly,
wherein said second groove of said base includes a pair of grooves, one of said pair of grooves securing said ferrule and the other of said pair of grooves securing said optical fiber.

Claims 2-6. (Cancelled)

7. (Currently Amended) The optical module according to claim [[4]] 1, wherein
said optical device is a light-receiving device and
said base has a third groove extending from said second groove to said light-receiving device and having a light-reflecting surface,

said light-receiving device receiving light emitted from said fiber assembly and reflected by said light-reflecting surface of said third groove.

8. (Cancelled)

9. (Currently Amended) An optical communication apparatus, comprising:

an optical module ~~according to claim 1;~~including

a first substrate,

an electronic device provided on said first substrate,

an optical device electrically connected to said electronic device,

a fiber assembly optically coupled to said optical device, and

a housing including a base and a cover, said base mounting said optical device

and said fiber assembly thereon, said cover enclosing said electronic device and said optical

device within a cavity formed by said housing cooperated with said base and said first substrate,

said base having an opening through which said first substrate is set to exposed said electronic device within said cavity;

a second substrate for installing other electronic devices; and

a wiring member for connecting said first substrate of said optical module to said second substrate,

wherein said wiring member is resilient.

10. (Original) The optical communication apparatus according to claim 9, wherein said wiring member is a flexible printed board.

11. (Previously Presented) The optical communication apparatus according to claim 9, wherein said optical device is a light-emitting device, said electronic device provided in said optical module is a driver for driving said light-emitting device, and said other electronic devices constitute a signal processing circuit for generating a signal provided to said driver.

12. (Previously Presented) The optical communication apparatus according to claim 9, wherein said optical device is a light-receiving device, said electronic device provided in said optical module is a pre-amplifier for amplifying a signal output from said light-receiving device, and said other electronic devices constitute a signal processing circuit for processing a signal output from said preamplifier.

13. (Original) The optical communication apparatus according to claim 9, further includes a resin body for enclosing said optical module, said wiring member, said second substrate.

14. (Currently Amended) An optical transceiver, comprising:
a first optical communication apparatus including
a first optical module comprising a first substrate, a light-emitting device, a driver
for driving said light-emitting device, said driver being provided on said first substrate, a first
fiber assembly optically coupled to said light-emitting device, and a first housing including a
first base and a first cover for enclosing said driver and said light-emitting device within a first
cavity formed by said first housing cooperated with said first base and said first substrate, said

first base having a first opening through which said first substrate is set to exposed said driver within said first cavity, and

a first resilient wiring member connected to said first substrate of said first optical module;

~~according to claim 11;~~

a second optical communication apparatus ~~according to claim 12~~ including

a second optical module comprising a second substrate, a light-receiving device, a pre-amplifier for amplifying a signal output from said light-receiving device, said pre-amplifier being provided on said second substrate, a second fiber assembly optically coupled to said light-receiving device, and a second housing including a second base and a second cover for enclosing said pre-amplifier and said light-receiving device within a second cavity formed by said first housing cooperated with said second base and said second substrate, said second base having a second opening through which said second substrate is set to exposed said pre-amplifier within said second cavity, and

a second resilient wiring member connected to said second substrate of said second optical module;

a third substrate for installing a first signal processing circuit to generate a signal provided to said driver on said first substrate and a second signal processing circuit to process a signal output from said pre-amplifier on said second substrate, said third substrate being connected to said first substrate through said first resilient wiring member and to said second substrate through said second resilient wiring member; and

a housing for enclosing said first optical communication apparatus and said second optical communication apparatus.

15. (Currently Amended) An optical module, comprising:

- a first substrate;
- an electronic device provided on said first substrate;
- an optical device electrically connected to said electronic device;
- a fiber assembly optically coupled to said optical device;
- a bench for mounting said optical device and said fiber assembly thereon;
- a housing including a base and a cover for enclosing said electronic device, said optical device and said bench within a cavity formed by said housing cooperated with said base and said first substrate, said base having a hollow for receiving said bench therein and an opening through which said first substrate is set to expose said electronics device within said cavity.